Amdt. Dated: March 17, 2004

Reply to Office Action of October 17, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

WHAT IS CLAIMED IS:

- 1. (currently amended) A method for producing a carbohydrate foam composition comprising the steps of:
 - (a) pre-wetting at least one water-insoluble carbohydrate with a pre-wetting agent;
- (b) mixing said pre-wetted carbohydrate with an aqueous solution eapable of to at least partially dissolving dissolve the carbohydrate;
 - (c) introducing a gas into said carbohydrate/aqueous solution to form a foam.
 - 2. (original) The method of claim 1, wherein the pre-wetting agent is water.
- 3. (original) The method of claim 1, wherein the carbohydrate is selected from cellulose or chitin.
- 4. (original) The method of claim 3, wherein the cellulose is selected from mixed office waste or fluffed pulp.
- 5. (original) The method of claim 1, further comprising heating the aqueous solution prior to mixing with the carbohydrate.

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- 6. (original) The method of claim 5, wherein the temperature of the aqueous solution is maintained from about 20° to about 95° C.
- 7. (original) The method of claim 5, wherein the temperature of the aqueous solution is maintained from about 60° to about 80° C.
- 8. (original) The method of claim 5, wherein the temperature of the aqueous solution is maintained at about 65° C.
- 9. (original) The method of claim 1, wherein the aqueous solution is an aqueous solution of ZnCl2.
- 10. (original) The method of claim 9, wherein the aqueous solution is from about 60% to about 75% ZnCl2 in water.
- 11. (original) The method of claim 9, wherein the aqueous solution is from about 65% to about 70% ZnCl2 in water.
- 12. (original) The method of claim 1, further comprising adding a salt to the aqueous carbohydrate solution prior to introducing the gas.
 - 13. (original) The method of claim 12, wherein the salt is CaCl2
- 14. (original) The method of claim 1, further comprising adding a surfactant to said carbohydrate aqueous solution prior to the introducing of the gas.
- 15. (original) The method of claim 1, wherein the gas is selected from air, carbon dioxide, nitrogen, helium or argon.

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- 16. (original) The method of claim 1, wherein the introducing of the gas comprises mechanical frothing.
- 17. (original) The method of claim 1, wherein the introducing of the gas comprises reaction with a blowing agent.
- 18. (original) The method of claim 17, wherein the blowing agent is selected from the group consisting of carbon dioxide, nitrogen or ammonium chloride.
- 19. (original) The method of claim 1, wherein said foam is regenerated with a regenerating agent.
 - 20. (original) The method of claim 19, wherein the regenerating agent is water.
- 21. (original) The method of claim 19, wherein the aqueous solution comprises an aqueous solution of zinc chloride, and wherein excess zinc chloride is removed prior to regeneration.
- 22. (original) The method of claim 21, wherein the removal of excess zinc chloride comprises contacting the foam with an organic solvent.
- 23. (original) The method of claim 22, wherein the organic solvent is selected from ethanol, methanol, or isopropanol.
- 24. (original) The method of claim 19 further comprising placing the regenerated foam in a glycerol bath.
 - 25. (original) The method of claim 1, further comprising drying the foam.

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- 26. (original) The method of claim 25, wherein the method of drying is selected from oven drying, microwave drying, freeze drying, chemical drying, or air drying.
- 27. (original) The method of claim 1, wherein the at least one carbohydrate comprises at least two carbohydrates.
- 28. (original) The method of claim 27, wherein the carbohydrates comprise cellulose and chitin.
- 29. (currently amended) A method for producing a carbohydrate foam composition comprising the steps of:
 - (a) pre-wetting a water-insoluble carbohydrate with a pre-wetting agent;
- (b) mixing at least partially dissolving said pre-wetted carbohydrate with an aqueous solution;
 - (c) adding a surfactant to said carbohydrate/aqueous solution;
 - (d) introducing a gas into said carbohydrate/aqueous solution to form a foam; and
 - (e) regenerating said foam with a regenerating agent.
- 30. (original) The method of claim 29, wherein the carbohydrate comprises a substantially water insoluble carbohydrate selected from cellulose or chitin.
- 31. (original) The method of claim 29, wherein the carbohydrate comprises cellulose and the cellulose is selected from mixed office waste or fluffed pulp.
 - 32. (original) The method of claim 29, wherein the pre-wetting agent is water.

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- 33. (original) The method of claim 29, wherein the aqueous solution comprises zinc chloride.
- 34. (original) The method of 32, further comprising removing excess zinc chloride prior to regeneration by contacting the foam with an organic solvent.
 - 35. (original) The method of claim 29, wherein the regenerating agent is water.
- 36. (original) The method of claim 29, further comprising adding incompletely dissolved cellulose fiber to the carbohydrate/aqueous solution prior to the introduction of the gas.
- 37. (original) The method of claim 29, further comprising spreading the foam onto a support substrate prior to regenerating the foam.
- 38. (original) The method of claim 37, wherein the support substrate is selected from spunbonded webs, meltblown webs or extruded sheets.
- 39. (original) The method of claim 37, wherein the support substrate comprises a non-woven polyolefin material.
- 40. (original) The method of claim 39, wherein the non-woven polyolefin material is selected from spunbonded or meltblown polypropylene.
 - 41. (original) The method of claim 29, further comprising drying the regenerated foam.
- 42. (original) The method of claim 41, wherein the method of drying is selected from the group consisting of oven drying, microwave drying, freeze drying, chemical drying, and air drying.

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- 43. (original) The method of claim 29, further comprising mechanically opening the cells of the foam.
- 44. (original) The method of claim 43, wherein the cells of the foam are mechanically opened by rolling a roller over the surface of the regenerated foam.
- 45. (currently amended) A method for producing a carbohydrate foam sheet comprising the steps of:
 - (a) pre-wetting a water-insoluble carbohydrate with a pre-wetting agent;
- (b) mixing at least partially dissolving said pre-wetted carbohydrate with an aqueous solution;
 - (c) adding a surfactant to said carbohydrate/aqueous solution;
 - (d) adding a cross-linking agent to said carbohydrate/aqueous solution;
 - (e) introducing a gas into said carbohydrate/aqueous solution to form a foam;
 - (f) spreading said foam into a thin sheet; and
 - (e) regenerating said foam sheet with a regenerating agent.
- 46. (original) The method of claim 45, wherein the carbohydrate is selected from cellulose or chitin.
- 47. (original) The method of claim 46, wherein the cellulose is selected from mixed office waste or fluffed pulp.
- 48. (original) The method of claim 45, wherein the aqueous solution comprises an aqueous solution of zinc chloride.

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- 49. (original) The method of claim 45, wherein the aqueous solution comprises an aqueous solution of zinc chloride and calcium chloride.
- 50. (original) The method of claim 48, further comprising removing the excess zinc chloride prior to regeneration by contacting the foam sheet with an organic solvent.
- 51. (original) The method of claim 47, wherein the foam is spread onto a temporary support prior to regeneration.
- 52. (original) The method of claim 51, wherein the temporary support comprises a polyester sheet or a polytetrafluoroethylene coated glass sheet.
- 53. (original) The method of claim 45, further comprising placing the regenerated foam sheet into a glycerol bath.
 - 54. (original) The method of claim 45, further comprising drying the foam sheet.
 - 55. (original) The method of claim 45, further comprising calendering the foam sheet.